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## Patent Abstracts of Japan

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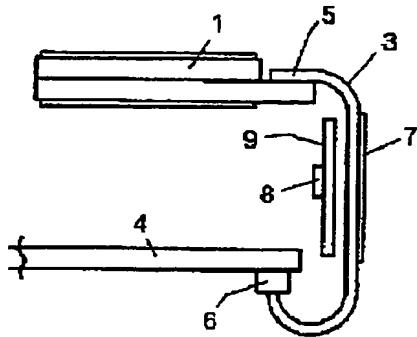
APPLICATION DATE : 30-05-96  
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APPLICANT : NIPPON SEIKI CO LTD;

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TITLE : LIQUID CRYSTAL DISPLAY DEVICE



ABSTRACT : PROBLEM TO BE SOLVED: To obtain a liquid crystal display device using electronic part low- priced and easily mended and exchanged by providing a liquid crystal cell, a tape carrier package(TCP) equipped with the electronic parts driving the liquid crystal cell, and a flexible circuit board which is electrically connected to the liquid crystal cell and on which the TCP is mounted.

SOLUTION: This device is equipped with the liquid crystal cell 1, the TCP 9 on which a chip part 8 is previously mounted as the electronic part driving the cell 1, and the flexible circuit board 3 which is electrically connected to the cell 1 and on which the TCP 9 is mounted. The circuit board 3 is equipped with a connection terminal part 5 to electrically connect with the cell 1, and a connection terminal part to electrically connect with a hard circuit board 4 being a main board. Thus, it is enough to prepare only the circuit board 3 whose production cost is low for every machine type in the case of mini- producing many kinds of liquid crystal display devices, so that exchange unfeasible trouble caused by the fault of the chip part 8 is prevented.

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